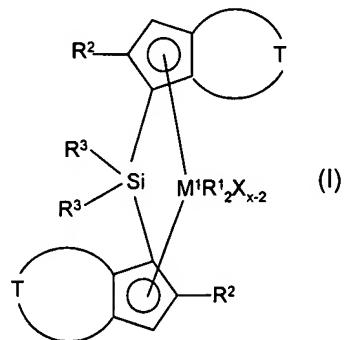
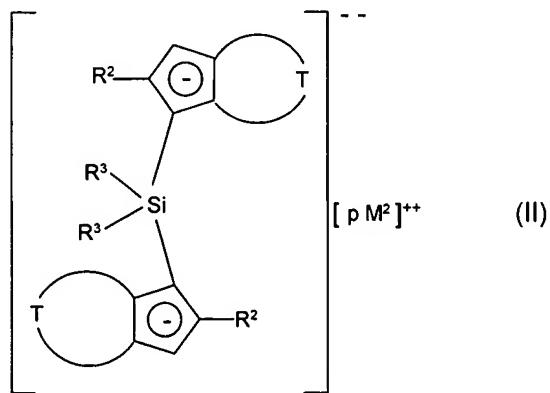


AMENDMENTS TO THE CLAIMS

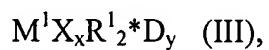
1. (currently amended) A process for the racemoselective preparation of silicon-bridged dialkyl-ansa-metallocenes of the formula (I)



which comprises reacting a ligand starting compound of the formula (II)



with a transition metal dialkyl compound of the formula (III)



where

M^1 is an element of group 4, 5 or 6 of the Periodic Table of the Elements[[,]];

R^1 are identical C₁-C₂₀-alkyl or C₇-C₄₀-arylalkyl radicals[[,]];

X are identical or different halogens[[,]];

R^2 are identical or different C₁-C₄₀ radicals[[],];

R^3 are identical or different C₁-C₄₀ radicals[[],];

T is a divalent C₁-C₄₀ group which together with the cyclopentadienyl ring forms a further saturated or unsaturated ring system which has a ring size of from 5 to 12 atoms, where T may contain the heteroatoms Si, Ge, N, P, O or S in the ring system fused onto the cyclopentadienyl ring[[],];

M^2 is Li, Na, K, MgCl, MgBr, MgI, Mg or Ca[[],];

D is an uncharged Lewis base ligand[[],];

x is equal to the oxidation number of M¹ minus 2[[],];

y is from 0 to 2;

and

p is 1 in the case of doubly positively charged metal ions or 2 in the case of singly positively charged metal ions or metal ion fragments.

2. (currently amended) AThe process as claimed in claim 1, wherein

T is a 1,3-butadiene-1,4-diyl group which may be unsubstituted or be substituted by from 1 to 4 radicals R⁴, where the two 1,3-butadiene-1,4-diyl groups may be different[[],];

R^4 are identical or different C₁-C₂₀ radicals[[],];

M^1 is titanium, zirconium or hafnium[[],];

R^1 are identical C₁-C₅-alkyl or C₇-C₂₀-arylalkyl radicals[[],]; and

X is halogen-and

~~R^2, R^3, M^2, D, p, x and y are as defined in claim 1.~~

3. (currently amended) ~~A~~The process as claimed in claim 1-~~or~~2, wherein the transition metal dialkyl compound of the formula (III) is produced at above -30°C by combining a compound M^1X_{x+2} with from 2 to 2.5 equivalents of a compound R^1M^3 in the presence of a ligand compound D, where

M^3 is Li^+ , Na^+ , K^+ , $MgCl^+$, $MgBr^+$, MgI^+ , $\frac{1}{2} [Mg^{++}]$ or $\frac{1}{2} [Zn^{++}]$, and

~~the other variables are as defined in claim 1 or 2.~~

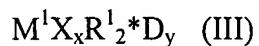
4. (currently amended) ~~A~~The process as claimed in claim 1-~~or~~2, wherein the ligand starting compound of the formula (II) ~~or (V)~~ is combined with the transition metal dialkyl compound of the formula (III) at above -30°C.

5. (currently amended) ~~A~~The process as claimed in claim 4, wherein ~~the~~ reaction mixture is maintained at from 30°C to 150°C for a period of at least 10 minutes after the reaction components have been combined.

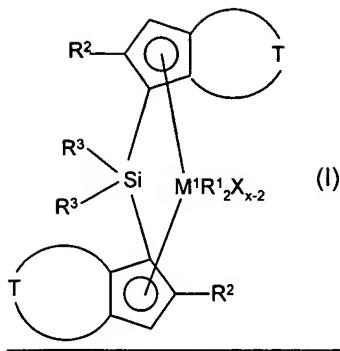
6. (currently amended) ~~A~~The process as claimed in ~~any of claims~~claim 1-to-5, wherein the reaction is carried out in an organic solvent or solvent mixture which comprises at least 10% by volume of an ether.

7. (currently amended) ~~A~~The process as claimed in ~~any of claims~~claim 1-to-6, wherein ~~the~~ racemoselectivity = (proportion of rac - proportion of meso)/(proportion of rac + proportion of meso) is greater than zero.

8. (currently amended) ~~The use of~~A process comprising utilizing a transition metal dialkyl compound of the formula (III):



for the racemoselective preparation of silicon-bridged dialkylansa-metallocenes of the formula (I):



wherein

M¹ is an element of group 4, 5 or 6 of the Periodic Table of the Elements;

R¹ are identical C₁-C₂₀-alkyl or C₇-C₄₀-arylalkyl radicals;

X are identical or different halogens;

R² are identical or different C₁-C₄₀ radicals;

R³ are identical or different C₁-C₄₀ radicals;

D is an uncharged Lewis base ligand;

y is from 0 to 2;

T is a divalent C₁-C₄₀ group which together with the cyclopentadienyl ring forms a further saturated or unsaturated ring system which has a ring size of from 5 to 12 atoms, where T may contain the heteroatoms Si, Ge, N, P, O or S in the ring system fused onto the cyclopentadienyl ring; and

x is equal to the oxidation number of M¹ minus 2.

9. (new) The process as claimed in claim 2, wherein the transition metal dialkyl compound of the formula (III) is produced at above -30°C by combining a compound M¹X_{x+2} with from 2 to 2.5 equivalents of a compound R¹M³ in the presence of a ligand compound D, where

M³ is Li⁺, Na⁺, K⁺, MgCl⁺, MgBr⁺, MgI⁺, ½ [Mg⁺⁺] or ½ [Zn⁺⁺].

10. (new) The process as claimed in claim 2, wherein the ligand starting compound of the formula (II) is combined with the transition metal dialkyl compound of the formula (III) at above -30°C.

11. (new) The process as claimed in claim 10, wherein a reaction mixture is maintained at from 30°C to 150°C for a period of at least 10 minutes after the reaction components have been combined.